

Notice of Allowability

Application No.

10/623,165

Examiner

Arthur D Donnelly

Applicant(s)

TROPPER, MATTHEW BRUCE

Art Unit

3663

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed 7/19/03.
2. ☒ The allowed claim(s) is/are 1-30.
3. ☒ The drawings filed on 19 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Thomas G. Black
THOMAS G. BLACK
SUPERVISORY PATENT EXAMINER
GROUP 760

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: the prior art of record fails to show or teach a tire controllable handling characteristics which are variable in real-time comprising a mechanism for varying the amount of flexing that the tire is permitted to undergo which mechanism includes a fluid selected from the group of an electrorheological fluid, a magnetorheological fluid and ferrofluid and a mechanism for applying to or removing from the fluid at least one of an electric current and a magnetic field. Chass (6,504,271 B2 and 6,628,017 B1) discloses a ferrofluidic electromagnetic power generator installed within a rotating object such as the interior of a vehicular tire generates electric current in an electrical coil but fails to disclose in real-time comprising a mechanism for varying the amount of flexing that the tire is permitted to undergo which mechanism includes a fluid selected from the group of an electrorheological fluid, a magnetorheological fluid and ferrofluid. Genna (5,587,698) discloses providing a means of providing air to the tires of vehicles and to improve the safety, handling and operation of the vehicle by means of regulating tire air pressure but fails to disclose using fluid selected from the group of an electrorheological fluid, a magnetorheological fluid and ferrofluid. Schramm (5,358,084) discloses a device for controlling the magnitude of torque transmitted from a torque supply source to an output drive device utilizing a contained electrorheological fluid medium but fails to show this fluid use in tires.

Therefore, in light of the novel disclosure provided for by the present invention, the present claims have been deemed as patentable over prior art relating to tires having controllable handling characteristics.

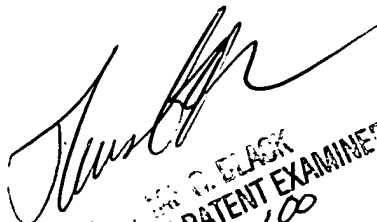
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arthur Donnelly whose telephone number is (703) 305-0215. The examiner can normally be reached on Monday -Thursday on the first and third weeks of the month and from Monday - Friday on the second and forth weeks of the month from 8:00 a.m. to 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black, can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7687.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.


THOMAS G. BLACK
SUPERVISORY PATENT EXAMINER
GROUP 7600

add

August 2, 2004